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## BEST AVAILABLE COPY

August 10, 2004

Linda S. Evans Johnson & Johnson One Johnson & Johnson Plaza New Brunswick, NJ 08933-7003

In re application of:

Darrow et al

No.: 10/015,989

Filed: December 10, 2001

For: Zymogen Activation System

In response to the petition received on February 26, 2004, to withdraw the holding of abandonment in the above application. A copy of the sequence list sent March 25, 2002, has not reached the application. Enclosed is a copy of the raw sequence listing error report.

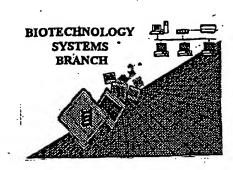
Please submit these documents to complete the application.

Telephone inquiries concerning this matter may be directed to Doshie E. Day at (703) 308-3640.

Doshie E. Day

Program Management Assistant Office Initial Patent Examination

## RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/0/5, 989

Source: 0116

Date Processed by STIC: 1/3/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE: SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility-that-the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

- 1. EFS-Bio (<a href="http://www.uspto.gov/ebc/efs/downloads/documents.htm">httm</a>, EFS Submission User Manual cPAVE)
- 2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
- Hand Carry directly to:
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
   Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202

U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1803-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

#### Raw Sequence Litting Error Summary

•	10/01/00					
ERROR DETECTED	SUCCESTED CORRECTION SERIAL NUMBER: 10/0/5,989					
attn: New Rules case:	5: Please disregard english "Alpha" Headers, Which were inserted by Pto Softwar					
Wrapped Nucleics Wrapped Aminos	The numberNext at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."					
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.					
3Misaligned Amino Numbering	The numbering under each 5th amino acid is missligned. Do not use tab codes between numbers; use space characters, instead.					
4 U Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCH text.					
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.					
6Patentin 2.0 "bug"	A "bug" in Patentin version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, Patentin would automatically, generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.					
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  This sequence is intentionally skipped					
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to Include the skipped sequences.  Sequence(s) missing. If Intentional, please insent the following lines for each skipped sequence.					
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequence:  <10> sequence id number  <400> sequence id number  000					
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing.  Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.					
0Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence					
1Usc of <220>	Sequence(s)missing the <220> "Feature" and associated numeric identifiers and responses.  Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)					
Patentin 2.0 "bug"	Please do not use "Copy to Disk" function of Patentln version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.					
3Misuse of n!	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.					

AMC/MH - Biotechnology Systems Branch - 08/21/2001

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/015,989

DATE: 01/03/2002

TIME: 15:41:56 -

Input Set : A:\ES.txt

Output Set: N:\CRF3\01032002\J015989.raw

PTO/STIC

7 <110> APPLICANT: DARROW, ANDREW QI, JENSON ANDRADE-GORDON, PATRICIA 19 <120> TITLE OF INVENTION: ZYMOGEN ACTIVATION SYSTEM. 25 <130> FILE REFERENCE: ORT-1552 🖄 <140> CURRENT APPLICATION NUMBER: US/10/015,989 🕟 🥪

34 <141> CURRENT FILING DATE: 2001-12-10

40 <160> NUMBER OF SEQ ID NOS: 60

46 <170> SOFTWARE: PATENTIN VER. 2.0

Does Not Comply 1/1/2 Corrected Diskette Needed

#### ERRORED SEQUENCES

52 <210> SEQ ID NO: 1 55 <211> LENGTH: 361 58 <212> TYPE: DNA 61 <213> ORGANISM: ARTIPICIAL SEQUENCE

67 <220> FEATURE:

VECTORS. 79 <400> SEQUENCE: 1 E--> 82 gaattcacca ccatggacag caaaggttcg tcgcagaaat cccgcctgct

83 cctgctgctg 60 E--> 86 gtggtgtcaa atctactctt gtgccagggt gtggtctccg actacaagga

87 cgacgacgac 120 \_\_ E--> 90 gtggacgcgg ccgctcttgc tgcccccttt gatgatgatg acaagatcgt

91 tgggggctat 180

E--> 94 getetagata geggeegett ecetttagtg agggttaatg ettegageag 95 acatgataag 240

E--> 98 atacattgat gagtttggac aaaccacaac tagaatgcag tgaaaaaaat 99 gctttatttg 300

E--> 102 tgaaatttgt gatgctattg ctttatttgt aaccattata agctgcaata

103 aacaagttga 360

106 c

112 <210> SEQ ID NO: 2

115 <211> LENGTH: 301

118 <212> TYPE: DNA

121 <213> ORGANISM: ARTIFICIAL SEQUENCE

127 <220> FEATURE:

130 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE: FUSION GENE

133 **VECTORS.** 

139 <400> SEQUENCE: 2

E--> 142 gaattcacca tgaatccact cctgatcctt acctttgtgg cggccgctct

143 tgctgcccc 60

E--> 146 tttgatgatg atgacaagat cgttgggggc tattgtctag atacccctac

147 gatgtgcccg 120

E--> 150 attacgccta gcggccgctt ccctttagtg agggttaatg cttcgagcag

FYI: hucleother must 70 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE: FUSION GENE

361

same format ever

DATE: 01/03/2002

PATENT APPLICATION: US/10/015,989

TIME: 15:41:56

Input Set : A:\ES.txt

Output Set: N:\CRF3\01032002\J015989.raw

151 acatgataag 180

E--> 154 atacattgat gagtttggac aaaccacaac tagaatgcag tgaaaaaaat

155 gctttatttg 240

E--> 158 tgaaatttgt gatgctattg ctttatttgt aaccattata agctgcaata

159 aacaagttga 300

162 c

168 <210> SEQ ID NO: 3

174 <212> TYPE: DNA

177 <213> ORGANISM: ARTIFICIAL SEQUENCE

183 <220> FEATURE:

186 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE: FUSION GENE

VECTORS. 189

195 <400> SEQUENCE: 3

E--> 198 gaattcacca ccatggacag caaaggttcg tcgcagaaat cccgcctgct

199 cctqctqctg 60

E--> 202 gtggtgtcaa atctactctt gtgccagggt gtggtctccg actacaagga

203 cgacgacgac 120

E--> 206 gtggacgcgg ccgctcttgc tgcccccttt atcgaggggc gcattgtgga

207 gggctcggat 180

E--> 210 ctagataccc ctacgatgtg cccgattacg ccgctagata cccctacgat

211 gtgcccgatt 240

E--> 214 acgccgctag ataccactac gatgtgcccg attacgccgc tagatacccc

en w215 stacgatgtgc 300 ms a common for a few management of the common state of the co E--> 218 ccgattacgc ctagcggccg cttcccttta gtgagggtta atgcttcgag

219 cagacatgat 360

E--> 222 aagatacatt gatgagtttg gacaaaccac aactagaatg cagtgaaaaa

223 aatgctttat 420

E--> 226 ttgtgaaatt tgtgatgcta ttgctttatt tgtaaccatt ataagctgca

227 ataaacaagt 480

230 tgac

236 <210> SEQ ID NO: 4

239 <211> LENGTH: 382

242 <212> TYPE: DNA

245 <213> ORGANISM: ARTIFICIAL SEQUENCE

251 <220> FEATURE:

254 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE: FUSION GENE

VECTORS. 257

263 <400> SEQUENCE: 4

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267 cctgctgctg 60

E--> 270 gtggtgtcaa atctactctt gtgccagggt gtggtctccg actacaagga

271 cgacgacgac 120

E--> 274 gtggacgcgg ccgctcttgc tgcccccttt gatgatgatg acaagatcgt

275 tgggggctac 180

E--> 278 aactgtctag acatcaccat caccatcact agcggccgct tccctttagt

279 gagggttaat 240

E--> 282 gettegagea gacatgataa gatacattga tgagtttgga caaaccacaa .

283 ctagaatgca 300

-301 -

PATENT APPLICATION: US/10/015,989

PTO/STIC

DATE: 01/03/2002 TIME: 15:41:56

382

Input Set : A:\ES.txt

Output Set: N:\CRF3\01032002\J015989.raw

E--> 286 gtgaaaaaaa tgctttattt gtgaaatttg tgatgctatt gctttatttg

287 taaccattat 360

290 aagctgcaat aaacaagttg ac

296 <210> SEQ ID NO: 5

299 <211> LENGTH: 352

302 <212> TYPE: DNA -

305 <213> ORGANISM: ARTIFICIAL SEQUENCE

314 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE: FUSION GENE

VECTORS. 317

323 <400> SEQUENCE: 5

E--> 326 gaattcacca ccatggcttt cctctggctc ctctcctgct gggccctcct

327 gggtaccacc 60

E--> 330 tteggetgeg gggteceega etacaaggae gaegaegaeg eggeegetet

331 tgctgcccc 120

E--> 334 tttgatgatg atgacaagat cgttgggggc tatgctctag acatcaccat

335 caccatcact 180

E--> 338 agcggccgct tccctttagt gagggttaat gcttcgagca gacatgataa

339 gatacattga 240

E--> 342 tgagtttgga caaaccacaa ctagaatgca gtgaaaaaaa tgctttattt

343 gtgaaatttg 300

E--> 346 tgatgctatt gctttatttg taaccattat aagctgcaat aaacaagttg

347 ac 352

1. (1. 353 <210> SEQ. ID NO. (62) HELL HOLD HELL WITHOUT THE CONTROL OF THE CONTR

356 <211> LENGTH: 385

359 <212> TYPE: DNA

362 <213> ORGANISM: ARTIFICIAL SEQUENCE

368 <220> FEATURE:

371 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE: FUSION GENE

VECTORS. 374

380 <400> SEQUENCE: 6

E--> 383 gaattcacca ccatggcttt cctctggctc ctctcctgct gggccctcct

384 gggtaccacc 60

E--> 387 tteggetgeg gggteecega etacaaggae gacgaegaeg eggeegetet

388 tgctgcccc 120

E--> 391 tttgatgatg atgacaagat cgttgggggc tatgctctag atacccctac

392 gatgtgcccg 180

E--> 395 attacgccgc tagacatcac catcaccatc actagcggcc gcttcccttt

396 agtgagggtt 240

E--> 399 aatgettega geagacatga taagatacat tgatgagttt ggacaaacca

400 caactagaat 300

E--> 403 gcagtgaaaa aaatgcttta tttgtgaaat ttgtgatgct attgctttat

404 ttgtaaccat 360

407 tataagctgc aataaacaag ttgac

413 <210> SEQ ID NO: 7

416 <211> LENGTH: 1169

419 <212> TYPE: DNA

422 <213> ORGANISM: ARTIFICIAL SEQUENCE

428 <220> FEATURE:

PATENT APPLICATION: US/10/015,989

DATE: 01/03/2002 TIME: 15:41:56

Input Set : A:\ES.txt

Output Set: N:\CRF3\01032002\J015989.raw

431 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE: FUSION GENE

WITH HOMO SAPIEN SERINE PROTEASE CATALYTIC DOMAIN 434

440 <400> SEQUENCE: 7

E--> 443 gaattcacca ccatggacag caaaggttcg tcgcagaaat cccgcctgct

444 cctgctgctg 60

E--> 447 gtggtgtcaa atctactctt gtgccagggt gtggtctccg actacaagga

448 cgacgacgac 120

元//E=+>=451-gtggacgcgg ccgctcttgdcttgcccctttcgatgatgatg-acaagatcgt/==-----------

452 tgggggctat 180

E--> 455 gctctagagg ccggtcagtg gccctggcag gtcagcatca cctatgaagg

456 cgtccatgtg 240

E--> 459 tgtggtggct ctctcgtgtc tgagcagtgg gtgctgtcag ctgctcactg

460 cttccccagc 300

E--> 463 gagcaccaca aggaagecta tgaggtcaag etgggggece accagetaga

464 ctcctactcc 360

E--> 467 gaggacgeca aggtcagcac cctgaaggac atcatccccc accccagcta

468 cctccaggag 420

E--> 471 ggctcccagg gcgacattgc actcctccaa ctcagcagac ccatcacctt

472 ctcccgctac 480

E--> 475 atcoggoda totgodode tgoagodaac godtoottoo coaacggodt

476 ccactgcact 540

E--> 479 gtcactggct ggggtcatgt ggccccctca gtgagcctcc tgacgcccaa

480 gccactgcag 600

E--> 483 caactcgagg tgcctctgat cagtcgtgag acgtgtaact gcctgtacaa 🐖 🐇 🦠

484 catcgacgcc 660

E--> 487 aagcctgagg agccgcactt tgtccaagag gacatggtgt gtgctggcta

488 tgtggagggg 720

E--> 491 ggcaaggacg cctgccaggg tgactctggg ggcccactct cctgccctgt

492 ggagggtctc 780

E--> 495 tggtacctga cgggcattgt gagctgggga gatgcctgtg gggcccgcaa

496 caggcctggt 840

E--> 499 gtgtacactc tggcctccag ctatgcctcc tggatccaaa gcaaggtgac 500 agaactccag 900

E--> 503 cctcgtgtgg tgccccaaac ccaggagtcc cagcccgaca gcaacctctg

504 tggcagccac 960

E--> 507 ctggccttca gctctagaca tcaccatcac catcactagc ggccgcttcc

508 ctttagtgag 1020

E--> 511 ggttaatget tegageagae atgataagat acattgatga gtttggacaa

512 accacaacta 1080

E--> 515 gaatgcagtg aaaaaaatgc tttatttgtg aaatttgtga tgctattgct

516 ttatttgtaa 1140

519 ccattataag ctgcaataaa caagttgac

528 <211> LENGTH: 1142

525 <210> SEQ ID NO: 8

531 <212> TYPE: DNA

534 <213> ORGANISM: ARTIFICIAL SEQUENCE

540 <220> FEATURE:

543 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE: FUSION GENE

WITH HOMO SAPIEN SERINE PROTEASE CATALYTIC DOMAIN

PATENT APPLICATION: US/10/015,989

DATE: 01/03/2002 TIME: 15:41:56

Input Set : A:\ES.txt

Output Set: N:\CRF3\01032002\J015989.raw

552 <400> SEQUENCE: 8

E--> 555 gaatteacea ceatggettt cetetggete eteteetget gggeceteet

556 gggtaccacc 60

E--> 559 tteggetgeg gggteecega etacaaggae gacgaegaeg eggeegetet

560 tgctgcccc 120

E--> 563 titgatgatg atgacaagat cgttgggggc tatgctctag aggccggtca

564 gtggccctgg 180

568 gtctgagcag 240

E--> 571 tgggtgctgt cagctgctca ctgcttcccc agcgagcacc acaaggaagc

572 ctatgaggtc 300

E--> 575 aagctggggg cccaccagct agactcctac tccgaggacg ccaaggtcag

576 caccetgaag 360

E--> 579 gacatcatco cocaccocag ctacctocag gagggotoco agggogacat

580 tgcactcctc 420

E--> 583 caactcagca gacccatcac cttctcccgc tacatccggc ccatctgcct

584 ccctgcagcc 480

E--> 587 aacgcctcct tccccaacgg cctccactgc actgtcactg gctggggtca

588 tgtggcccc 540

E--> 591 tcagtgagcc tcctgacgcc caagccactg cagcaactcg aggtgcctct

592 gatcagtcgt 600

E--> 595 gagacgtgta actgcctgta caacatcgac gccaagcctg aggagccgca

596 ctttgtccaa 660

E--> 599 gaggacatgg tgtgtgctgg ctatgtggag gggggcaagg acgcctgcca

600 gggtgactct 720

E--> 603 gggggcccac tetectgecc tgtggagggt etetggtace tgacgggcat

604 tgtgagctgg 780

E--> 607 ggagatgcct gtggggcccg caacaggcct ggtgtgtaca ctctggcctc

608 cagctatgcc 840

E--> 611 tcctggatcc aaagcaaggt gacagaactc cagcctcgtg tggtgcccca

612 aacccaggag 900

E--> 615 teccageeg acageaacet etgtggeage cacetggeet teagetetag

616 acatcaccat 960

E--> 619 caccatcact ageggeeget teeetttagt gagggttaat gettegagea

620 gacatgataa 1020

E--> 623 gatacattga tgagtttgga caaaccacaa ctagaatgca gtgaaaaaaa

624 tgctttattt 1080

E--> 627 gtgaaatttg tgatgctatt gctttatttg taaccattat aagctgcaat

628 aaacaagttg 1140

631 ac

637 <210> SEQ ID NO: 9

640 <211> LENGTH: 1049

643 <212> TYPE: DNA

646 <213> ORGANISM: ARTIFICIAL SEQUENCE

652 <220> FEATURE:

655 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE: FUSION GENE

WITH HOMO SAPIEN SERINE PROTEASE CATALYTIC DOMAIN

664 <400> SEQUENCE: 9

E--> 667 gaattcacca ccatggacag caaaggttcg tcgcagaaat cccgcctgct

PATENT APPLICATION: US/10/015,989

DATE: 01/03/2002 TIME: 15:41:56

Input Set : A:\ES.txt

Output Set: N:\CRF3\01032002\J015989.raw

668 cctgctgctg 60

E--> 671 gtggtgtcaa atctactctt gtgccagggt gtggtctccg actacaagga

672 cgacgacgac 120

E--> 675 gtggacgcgg ccgctcttgc tgcccccttt gatgatgatg acaagatcgt

676 tgggggctac 180

E--> 679 aactgtctag aaccecattc gcagccttgg caggcggcct tgttccaggg

680 ccagcaacta 240

684 ctgtaaaaaa 300

E--> 687 ccgaaataca cagtacgcct gggagaccac agcctacaga ataaagatgg

688 cccagagcaa 360

E--> 691 gaaatacctg tggttcagtc catcccacac ccctgctaca acagcagcga

692 tgtggaggac 420

E--> 695 cacaaccatg atctgatgct tcttcaactg cgtgaccagg catccctggg

696 gtccaaagtg 480

E--> 699 aageccatea geetggeaga teattgeace cageetggee agaagtgeac

700 cgtctcaggc 540

E--> 703 tggggcactg tcaccagtcc ccgagagaat tttcctgaca ctctcaactg

704 tgcagaagta 600

E--> 707 aaaatctttc cccagaagaa gtgtgaggat gcttacccgg ggcagatcac

708 agatggcatg 660

E--> 711 gtctgtgcag gcagcagcaa aggggctgac acgtgccagg gcgattctgg

712 aggeceetg 720

E:-> 715 gtgtgtgatg gtgcactcca gggcatcaca tcctggggct cagacccctg

716 tgggaggtcc 780

E--> 719 gacaaacctg gcgtctatac caacatctgc cgctacctgg actggatcaa

720 gaagatcata 840

E--> 723 ggcagcaagg gctctagaca tcaccatcac catcactage ggccgcttcc

724 ctttagtgag 900

E--> 727 ggttaatget tegageagae atgataagat acattgatga gtttggacaa

728 accacaacta 960

E--> 731 gaatgcagtg aaaaaaatgc tttatttgtg aaatttgtga tgctattgct

732 ttatttgtaa 1020

735 ccattataag ctgcaataaa caagttgac

741 <210> SEQ ID NO: 10

744 <211> LENGTH: 1052

747 <212> TYPE: DNA

750 <213> ORGANISM: ARTIFICIAL SEQUENCE

756 <220> FEATURE:

759 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE: FUSION GENE

WITH HOMO SAPIEN SERINE PROTEASE CATALYTIC DOMAIN

768 <400> SEQUENCE: 10

E--> 771 gaattcacca ccatggacag caaaggttcg tcgcagaaat cccgcctgct

772 cctgctgctg 60

E--> 775 gtggtgtcaa atctactctt gtgccagggt gtggtctccg actacaagga

776 cgacgacgac 120.

E--> 779 gtggacgegg cegetettge tgeeceettt gatgatgatg acaagategt

780 tgggggctac 180

E--> 783 aactgtctag aaaagcactc ccagccctgg caggcagccc tgttcgagaa

some

PATENT APPLICATION: US/10/015,989

DATE: 01/03/2002 TIME: 15:41:56

Input Set : A:\ES.txt

Output Set: N:\CRF3\01032002\J015989.raw

784 gacgcggcta 240

E--> 787 ctctgtgggg cgacgctcat cgccccaga tggctcctga cagcagccca

788 ctgcctcaag 300

E--> 791 ccccgctaca tagttcacct ggggcagcac aacctccaga aggaggaggg

792 ctgtgagcag 360

E--> 795 acceggacag ceaetgagte ettececeae eceggettea acaacageet

796 ccccaacaaa 420

E--> 799 gaccaccgca atgacatcat gctggtgaag atggcatcgc cagtctccat

800 cacctgggct 480

E--> 803 gtgcgacccc tcaccetcte ctcacgetgt gtcactgctg gcaccagetg

804 cctcatttcc 540

E--> 807 ggctggggca gcacgtccag ccccagtta cgcctgcctc acaccttgcg

808 atgcgccaac 600

E--> 811 atcaccatca ttgagcacca gaagtgtgag aacgcctacc ccggcaacat

812 cacagacacc 660

E--> 815 atggtgtgtg ccagcgtgca ggaagggggc aaggactcct gccagggtga

816 ctccgggggc 720

E--> 819 cctctggtct gtaaccagtc tcttcaaggc attatctcct ggggccagga

820 tccgtgtgcg 780

E--> 823 atcaccegaa agectggtgt ctacacgaaa gtctgcaaat atgtggactg

824 gatccaggag 840

E--> 827 acgatgaaga acaattotag acatcaccat caccatcact agcggccgct

828 tccctttagt 900

(E--> 831 gagggttaat gettegagea gacatgataa gatacattga tgagtttgga

832 caaaccacaa 960

E--> 835 ctagaatgca gtgaaaaaaa tgctttattt gtgaaatttg tgatgctatt

836 gctttatttg 1020

839 taaccattat aagctgcaat aaacaagttg ac

1067 <210> SEQ ID NO: 12

1070 <211> LENGTH: 319

1073 <212> TYPE: PRT

1076 <213> ORGANISM: ARTIFICIAL SEQUENCE

1082 <220> FEATURE:

1085 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE: FUSION GENE

WITH HOMO SAPIEN SERINE PROTEASE CATALYTIC DOMAIN

1094 <400> SEQUENCE: 12

1097 MET ALA PHE LEU TRP LEU LEU SER CYS TRP ALA LEU LEU GLY THR

1100 - 11106(PHE GLY CYS GLY VAL PRO ASP TYR LYS ASP ASP ASP ALA ALA ALA

30 25 20 1109

1115 LEU ALA ALA PRO PHE ASP ASP ASP LYS ILE VAL GLY GLY TYR ALA 45 40 1118 35

1124 LEU GLU ALA GLY GLN TRP PRO TRP GLN VAL SER ILE THR TYR GLU GLY-55 60

1133 VAL HIS VAL CYS GLY GLY SER LEU VAL SER GLU GLN TRP VAL LEU SER

75 70

1142 ALA ALA HIS CYS PHE PRO SER GLU HIS HIS LYS GLU ALA TYR GLU VAL 95 90 85

1151 LYS LEU GLY ALA HIS GLN LEU ASP SER TYR SER GLU ASP ALA LYS VAL

e.g. Met Ala

DATE: 01/03/2002

PATENT APPLICATION: US/10/015,989

TIME: 15:41:56

Input Set : A:\ES.txt

Output Set: N:\CRF3\01032002\J015989.raw

1154 100 105 1160 SER THR LEU LYS ASP ILE ILE PRO HIS PRO SER TYR LEU GLN GLU GLY last two letters of anero ouds to lower-cose letter 115 120 125 1169 SER GLN GLY ASP ILE ALA LEU LEU GLN LEU SER ARG PRO ILE THR PHE 135 140 1178 SER ARG TYR ILE ARG PRO ILE CYS LEU PRO ALA ALA ASN ALA SER PHE 155 150 1187 PRO ASN GLY LEU HIS CYS THR VAL THR GLY TRP GLY HIS VAL ALA PRO 170 175 165 1196 SER VAL SER LEU LEU THR PRO LYS PRO LEU GLN GLN LEU GLU VAL PRO 180 185 1205 LEU ILE SER ARG GLU THR CYS ASN CYS LEU TYR ASN ILE ASP ALA LYS 195 200 1214 PRO GLU GLU PRO HIS PHE VAL GLN GLU ASP MET VAL CYS ALA GLY TYR 215 220 1223 VAL GLU GLY GLY LYS ASP ALA CYS GLN GLY ASP SER GLY GLY PRO LEU 1226 225 230 235 1232 SER CYS.PRO VAL GLU GLY LEU TRP TYR LEU THR GLY ILE VAL SER TRP 250 255 245 1241 GLY ASP ALA CYS GLY ALA ARG ASN ARG PRO GLY VAL TYR THR LEUM MAG E--> 1242 ALA. 270 260 265 1251 SER SER TYR ALA SER TRP ILE GLN SER LYS VAL THR GLU LEU GLN PRO 275 280 1260 ARG VAL VAL PRO GLN THR GLN GLU SER GLN PRO ASP SER ASN LEU CYS E--> 1263 290 295 300 1269 GLY SER HIS LEU ALA PHE SER SER ARG HIS HIS HIS HIS HIS HIS E--> 1272 305 310 2409 <210> SEQ ID NO: 35 OLIGONUCLEOTIDE 2473 <400> SEQUENCE: 36 E--> 2476 ccaggagggc ccagcaggag aggagccaga ggaaagccat ggtggtg 2477 47 2483 <210> SEQ ID NO: 37

Page 9 of 15

RAW SEQUENCE LISTING DATE: 01/03/2002 PATENT APPLICATION: US/10/015,989 TIME: 15:41:56

PTO/STIC

Input Set : A:\ES.txt

Output Set: N:\CRF3\01032002\J015989.raw

```
2486 <211> LENGTH: 45
      2489 <212> TYPE: DNA
      2492 <213> ORGANISM: ARTIFICIAL SEQUENCE
      2498 <220> FEATURE:
      2501 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE:
      2504
                 OLIGONUCLEOTIDE
      2510 <400> SEQUENCE: 37
E--> 2513 caccttoggo tgoggggtoo cogactacaa ggacgacgac gacgo
      2514 45
      2520 <210> SEQ ID NO: 38
      2523 <211> LENGTH: 53
      2526 <212> TYPE: DNA
      2529 <213> ORGANISM: ARTIFICIAL SEQUENCE
      2535 <220> FEATURE:
      2538 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE:
     2541
                OLIGONUCLEOTIDE
      2547 <400> SEQUENCE: 38
 E--> 2550 ggccgcgtcg tcgtcgtcct tgtagtcggg gaccccgcag ccgaaggtgg
                      53
      2551 tac
      2629 <210> SEQ ID NO: 41
      2632 <211> LENGTH: 55
      2635 <212> TYPE: DNA
      2638 <213> ORGANISM: ARTIFICIAL SEQUENCE
      2644 <220> FEATURE:
      2647 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE:
                OLIGONUCLEOTIDE
      2650 -
      2656 <400> SEQUENCE: 41
 E--> 2659 ggccgctctt gctgccccct ttgatgatga tgacaagatc gttgggggct
      2660 atqct
                      55
      2666 <210> SEQ ID NO: 42
      2669 <211> LENGTH: 55
      2672 <212> TYPE: DNA
      2675 <213> ORGANISM: ARTIFICIAL SEQUENCE
      2681 <220> FEATURE:
      2684 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE:
                 OLIGONUCLEOTIDE
      2693 <400> SEQUENCE: 42
 E--> 2696 ctagagcata gcccccaacg atcttgtcat catcatcaaa gggggcagca
      2697 agage
                     55
      2703 <210> SEQ ID NO: 43
      2706 <211> LENGTH: 55
      2709 <212> TYPE: DNA
      2712 <213> ORGANISM: ARTIFICIAL SEQUENCE
      2718 <220> FEATURE:
      2721 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE:
```

2730 <400> SEQUENCE: 43

2724

2734 attgt

OLIGONUCLEOTIDE

55

E--> 2733 ggccgctctt gctgccccct ttgatgatga tgacaagatc gttgggggct

and the second section is a second second

RAW SEQUENCE LISTING

DATE: 01/03/2002

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PATENT APPLICATION: US/10/015,989

TIME: 15:41:56

Input Set : A:\ES.txt Output Set: N:\CRF3\01032002\J015989.raw

2740 <210> SEQ ID NO: 44 2743 <211> LENGTH: 55 2746 <212> TYPE: DNA

2749 <213> ORGANISM: ARTIFICIAL SEQUENCE

2755 <220> FEATURE:

2758 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE:

OLIGONUCLEOTIDE

2767 <400> SEQUENCE: 44

E--> 2770 ctagacaata gcccccaacg atcttgtcat catcatcaaa gggggcagca

2771 agagc 55

2777 <210> SEQ ID NO: 45

2780 <211> LENGTH: 52

2783 <212> TYPE: DNA

2786 <213> ORGANISM: ARTIFICIAL SEQUENCE

2792 <220> FEATURE:

2795 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE:

OLIGONUCLEOTIDE

2804 <400> SEQUENCE: 45

E--> 2807 ggccgctctt gctgcccct ttatcgaggg gcgcattgtg gagggctcgg

52

2814 <210> SEQ ID NO: 46

2817 <211> LENGTH: 52

2820 <212> TYPE: DNA

2823 <213> ORGANISM: ARTIFICIAL SEQUENCE

2829 <220> FEATURE:

2832 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE:

2835 OLIGONUCLEOTIDE

2841 <400> SEQUENCE: 46

E--> 2844 ctagatecga gecetecaca atgegeceet egataaaggg ggcagcaaga

2845 gc

52 3280 <210> SEQ ID NO: 54

3283 <211> LENGTH: 284

3286 <212> TYPE: PRT

3289 <213> ORGANISM: ARTIFICIAL SEQUENCE

3295 <220> FEATURE:

3298 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE: HUMAN MH2

PROTEASE IN PFEK ZYMOGEN VECTOR

20

3307 <400> SEOUENCE: 54

3310 MET ASP SER LYS GLY SER SER GLN LYS SER ARG LEU LEU LEU LEU

10 3313 1 5

3319 VAL VAL SER ASN LEU LEU LEU CYS GLN GLY VAL VAL SER ASP TYR LYS 30 25

3328 ASP ASP ASP ASP VAL ASP ALA ALA ALA LEU ALA ALA PRO PHE ASP ASP

3331 35 40 45 3337 ASP ASP LYS ILE VAL GLY GLY TYR ASN CYS LEU GLU PRO HIS SER GLN

60 3340 50 . 55

3346 PRO TRP GLN ALA ALA LEU VAL MET GLU ASN GLU LEU PHE CYS SER GLY

3349 65 70 75

3355 VAL LEU VAL HIS PRO GLN TRP VAL LEU SER ALA ALA HIS CYS PHE GLN

edit anno and letters

DATE: 01/03/2002 TIME: 15:41:56

PATENT APPLICATION: US/10/015,989

Input Set : A:\ES.txt

Output Set: N:\CRF3\01032002\J015989.raw

3358 3364 ASN SER TYR THR ILE GLY LEU GLY LEU HIS SER LEU GLU ALA ASP GLN 105 3367 100 3373 GLU PRO GLY SER GLN MET VAL GLU ALA SER LEU SER VAL ARG HIS PRO 115 120 125 3376 3382 GLU TYR ASN ARG PRO LEU LEU ALA ASN ASP LEU MET LEU ILE LYS LEU 🚐 -140 3385 130 135 : 3391 ASP GLU SER VAL SER GLU SER ASP THR ILE ARG SER ILE SER ILE ALA 3394 145 150 155 3400 SER GLN CYS PRO THR ALA GLY ASN SER CYS LEU VAL SER GLY TRP GLY 170 175 165 3403 3409 LEU LEU ALA ASN GLY ARG MET PRO THR VAL LEU GLN CYS VAL ASN E--> 3410(VAL) 185 190 E--> 3413 180 3419 SER VAL VAL SER GLU GLU VAL CYS SER LYS LEU TYR ASP PRO LEU TYR 200 205 E--> 3422 195 3428 HIS PRO SER MET PHE CYS ALA GLY GLY HIS ASP GLN LYS ASP SER 210 215 220 3437 CYS ASN GLY ASP SER GLY GLY PRO LEU ILE CYS ASN GLY TYR LEU GLN 235 E--> 3440 225 230 3446 GLY LEU VAL SER PHE GLY LYS ALA PRO CYS GLY GLN VAL GLY VAL PRO E--> 3449 245 250 3455 GLY VAL TYR THR ASN LEU CYS LYS PHE THR GLU TRP ILE GLU LYS THR 265 E--> 3458 260 3464 VAL GLN ALA SER SER ARG HIS HIS HIS HIS HIS 275 280 3608 <210> SEQ ID NO: 59 3611 <211> LENGTH: 1103 3614 <212> TYPE: DNA 3617 <213> ORGANISM: ARTIFICIAL SEQUENCE 3623 <220> FEATURE: 3626 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE: NUCLEIC ACID SEQUENCE OF HUMAN PROTEASE F IN CFEK2 ZYMOGEN 3629 **VECTOR** 3638 <400> SEQUENCE: 59 E--> 3641 gaattcacca-ccatggcttt cctctggctc ctctcctgct gggccctcct 3642(gggtaccacc 60) former
greatern I
on Eva humany
Shut E--> 3645 ttcggctgcg gggtccccga ctacaaggac gacgacgacg cggccgctct 3646 tgctgcccc 120 E--> 3649 tttgatgatg atgacaagat cgttgggggc tatgctctag aactcgggcg 3650 ttggccgtgg 180 E--> 3653 caggggagec tgegeetgtg ggatteecac gtatgeggag tgageetget 3654 cagccaccgc 240 E--> 3657 tgggcactca cggcggcgca ctgctttgaa acctatagtg accttagtga 3658 teecteeggg 300 E--> 3661 tggatggtcc agtttggcca gctgacttcc atgccatect tctggagcct 3662 gcaggcctac 360 E--> 3665 tacaaccgtt acttcgtatc gaatatctat ctgagccctc gctacctggg

3666 gaattcaccc 420



MON 11:55 FAX 703 308 4221

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PATENT APPLICATION: US/10/015,989

DATE: 01/03/2002 TIME: 15:41:56

Input Set : A:\ES.txt

Output Set: N:\CRF3\01032002\J015989.raw

E>		tatgacattg catccagccc		gctgtctgca	cctgtcacct	acactaaaca
E>	3673		aggcetecae	atttgagttt	gagaaccgga	cagactgctg
E>	3677		tcaaagagga	tgaggcactg	ccatctcccc	acacceteca
E>	3681		taaacaactc	tatgtgcaac	cacctcttcc	tcaagtacag
E>	3685		gagacatggt	ttgtgctggc	aatgcccaag	gegggaagga
E>	3689		gtggaccctt	ggcctgtaac	aagaatggac	tgtggtátca
E>	3693		gagtgggctg	tggtcggccc	aatcggcccg	gtgtctacac
E>	3697		agtggatcca	gaagctgatg	gcccagagtg	gcatgtccca
E>	3701		gacatcacca	tcaccatcac	tagcggccgc	ttccctttag
	3705		agacatgata	agatacattg	atgagtttgg	acaaaccaca
E>	3709	agtgaaaaaa	atgctttatt	tgtgaaattt	gtgatgctat	tgctttattt

some)

1103

Positive the Requester Listing to incure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or X22.

3710 gtaaccatta 1080

3713 taagctgcaa taaacaagtt gac

DATE: 01/03/2002 VERIFICATION SUMMARY TIME: 15:41:57 PATENT APPLICATION: US/10/015,989

PTO/STIC

Input Set .: A:\ES.txt

Output Set: N:\CRF3\01032002\J015989.raw

L:31 M:270 C: Current Application Number differs, Replaced Application Number

```
L:34 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:82 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:1
L:82 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=1
M:254 Repeated in SeqNo-1
L:142 M:254 E: No. of Bases conflict, LENGTH: Input:0 Counted:50 SEQ:2
M:112 Repeated in SeqNo-2
M:254 Repeated in SeqNo=2
L:198 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:3
M:112 Repeated in SeqNo=3
M:254 Repeated in SeqNo=3
L:266 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:4
M:112 Repeated in SeqNo-4
M: 254 Repeated in SeqNo=4
L:326 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:5
M:112 Repeated in SeqNo=5
M:254 Repeated in SeqNo=5
L:383 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:6
M:112 Repeated in SeqNo=6
M:254 Repeated in SeqNo=6
L:443 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:7
M:112 Repeated in SeqNo=7
M: 254 Repeated in SeqNo=7
L:555 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:8
M:112 Repeated in SeqNo=8
M: 254 Repeated in SeqNo=8
L:667 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:9
M:112 Repeated in SeqNo=9
M: 254 Repeated in SeqNo=9
L:771 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:10
M:112 Repeated in SeqNo=10
M:254 Repeated in SeqNo=10
L:1242 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:12
M:332 Repeated in SeqNo=12
L:1719 M:112 C: (48) String data converted to lower case,
L:1755 M:112 C: (48) String data converted to lower case,
L:1791 M:112 C: (48) String data converted to lower case,
L:1827 M:112 C: (48) String data converted to lower case,
L:1863 M:112 C: (48) String data converted to lower case,
L:1899 M:112 C: (48) String data converted to lower case,
L:1935 M:112 C: (48) String data converted to lower case,
L:1971 M:112 C: (48) String data converted to lower case,
L:2007 M:112 C: (48) String data converted to lower case,
L:2043 M:112 C: (48) String data converted to lower case,
L:2079 M:112 C: (48) String data converted to lower case,
L:2115 M:112 C: (48) String data converted to lower case,
L:2151 M:112 C: (48) String data converted to lower case,
```

VERIFICATION SUMMARY PATENT APPLICATION: US/10/015,989

DATE: 01/03/2002 TIME: 15:41:57

Input Set : A:\ES.txt

L:2187 M:112 C: (48) String data converted to lower case,

Output Set: N:\CRF3\01032002\J015989.raw

L:2223 M:112 C: (48) String data converted to lower case, L:2259 M:112 C: (48) String data converted to lower case, L:2295 M:112 C: (48) String data converted to lower case, L:2331 M:112 C: (48) String data converted to lower case, L:2367 M:112 C: (48) String data converted to lower case, L:2403 M:112 C: (48) String data converted to lower case, L:2439 M:254 E: No. of Bases conflict, LENGTH: Input:0 Counted:50 SEQ:35 M:112 Repeated in SeqNo=35 L:2476 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:47 SEQ:36 M:112 Repeated in SeqNo=36 L:2513 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:45 SEQ:37 M:112 Repeated in SeqNo=37 L:2550 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:38 M:112 Repeated in SeqNo=38 L:2587 M:112 C: (48) String data converted to lower case, L:2623 M:112 C: (48) String data converted to lower case, L:2659 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:41 M:112 Repeated in SeqNo=41 L:2696 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:42 M:112 Repeated in SeqNo=42 L:2733 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:43 M:112 Repeated in SeqNo=43 L:2770 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:44 M:112 Repeated in SeqNo=44 L:2807 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:45 M:112 Repeated in SeqNo=45 L:2844 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:46 M:112 Repeated in SeqNo=46 L:2881 M:112 C: (48) String data converted to lower case, L:2917 M:112 C: (48) String data converted to lower case, L:2953 M:112 C: (48) String data converted to lower case, L:2989 M:112 C: (48) String data converted to lower case, L:3025 M:112 C: (48) String data converted to lower case, L:3061 M:112 C: (48) String data converted to lower case, L:3410 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:54 M:332 Repeated in SeqNo=54 L:3503 M:112 C: (48) String data converted to lower case, L:3641 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:59 M:254 Repeated in SeqNo=59 L:3752 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:60 M:254 Repeated in SeqNo=60

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